

Serial No. 10/776,187
Docket No. F0937-US
KOYO.001

2

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A luggage storage structure for a vehicle with a concaved storage portion formed to protrude downward in a floor panel and a plate member provided to cover an upper portion of said concaved storage portion, comprising:

a transfer mechanism for transferring said plate member up and down relative to said floor panel;

a pair of rail frames fixed on said floor panel on opposite sides of said concaved storage portion and parallel to each other;

a pair of drive links, a first end of each drive link being connected with one of said rail frames so as to transfer in a longitudinal direction of said rail frame, a second end of each drive link being connected with said plate member, said drive links being horizontal when said plate member closes said concaved storage portion, and said drive links being raised when said plate member is transferred upward;

a pair of driven links, a first end of each driven link being connected with said plate member, a second end of each driven link being connected with said floor panel, ~~a middle portion of each driven link being connected~~ at a middle point of ~~[[with]]~~ one of said drive links so as to rotate, said driven links being horizontal when said plate member closes said concaved storage portion and said driven links being raised when said plate member is transferred upward;

a plurality of sliders for transferring in the longitudinal direction of said rail frame, said sliders engaging with said first ends of said drive links through a pair of connecting links; and

Serial No. 10/776,187
Docket No. F0937-US
KOYO.001

3

a driving mechanism provided to transfer each slider in the longitudinal direction of said rail frame, wherein

each drive link and each driven link shift between an approximately horizontal state and a raised state by transferring said first end of each drive link along said rail frame,

each drive link includes a contacting portion provided between said middle ~~portion~~ point of said drive link and said first end of said drive link,

each of said sliders includes a contacting surface formed thereon to be brought into contact with said contacting portion, ~~[[and]]~~

said contacting surface slopes in a direction in which said slider transfers when said drive link shifts from said approximately horizontal state to said raised ~~state~~: state;

each of the sliders is provided with a transfer guide groove in the longitudinal direction of the rail frame, and

a rotary connecting portion comprising one of said pair of connecting links which on one end is connected to said first end of said drive link so as to rotate, and on the other end is connected to a slide pin for transferring within the transfer guide groove.

2. (Previously Presented) The luggage storage structure as claimed in claim 1, wherein:

said concaved storage portion is a spare tire storage portion, the plate member transferring approximately up and down in a luggage space of said vehicle.

3. (Canceled)

Serial No. 10/776,187
Docket No. F0937-US
KOYO.001

4

4. (Previously Presented) The luggage storage structure as claimed in claim 1, further comprising:

a driving mechanism wherein two electric motors are disposed, and each slider is independently driven by each electric motor.

5. (Original) The luggage storage structure as claimed in claim 1, further comprising:

a plate member frame for supporting the plate member, the plate member frame being connected with each drive link and each driven link, and the plate member frame transferring in a predetermined direction with respect to each drive link and each driven link; and

a driving member for transferring the plate member frame in the predetermined direction.

6. (Previously Presented) The luggage storage structure as claimed in claim 1, further comprising:

a plate member frame for supporting the plate member, the plate member frame being connected with each drive link and each driven link; and

a lock mechanism for locking the plate member and the plate member frame having a release portion capable of unlocking the lock mechanism, the release portion of the lock mechanism being disposed on a lower surface of the plate member.

7. (Canceled)

Serial No. 10/776,187
Docket No. F0937-US
KOYO.001

5

8. (Currently Amended) The luggage storage structure as claimed claim [[7]] 1,
wherein;

each of the rail frames comprises a main rail facing in a vertical direction for guiding the slider, and a sub rail facing in a vertical direction for guiding engagement of said drive link and said connecting link.

9. (Previously Presented) The luggage storage structure as claimed in claim 1, wherein:
the slider is formed to have an approximately T-shaped cross-section.

10. (Previously Presented) The luggage storage structure as claimed in claim 1, wherein:
on a lower side of the plate member is provided a leg set to horizontally support said plate member to allow said plate member to be a top plate of a table, and a folding chair to be used with said table.

11. (Currently Amended) The luggage storage structure as claimed in claim [[7]] 1,
wherein:

an initial transfer zone of the contacting portion for contacting with the contacting surface so as to transmit a driving force of the slider to the drive links; and

a normal transfer zone provided for the driving force to be transmitted from the slider through the rotating connection portion to the drive links.

12. (Previously Presented) The luggage storage structure as claimed in claim 1, wherein
said pair of drive links are a different length than said pair of driven links.

Serial No. 10/776,187
Docket No. F0937-US
KOYO.001

6

13. (Currently Amended) The luggage storage structure as claimed in claim 1, wherein
[[the]] ~~a middle portion point~~ of each driven link is connected with [[a]] ~~said middle portion~~
~~point~~ of each drive link.